



IBM Director V4.1 Delivers Superior Hardware Management for Exceptional Flexibility and Maximum Availability

Overview

IBM Director V4.1 is the latest release of the industry-leading workgroup management application for Intel®-based systems. IBM Director consists of an impressive suite of systems management tools that deliver superior hardware manageability. It enables customers to realize maximum system availability and lower IT costs.

IBM Director's industry-standard foundation enables heterogeneous hardware support and works with a variety of operating systems and network protocols. As the sole systems management application in an environment, it can provide a complete management solution for inventorying hardware features and settings, general system information, invoking proactive systems management functions, and providing a direct link to IBM service and support Web pages. Leveraging industry standards allows for easy integration with other systems management tools and applications.

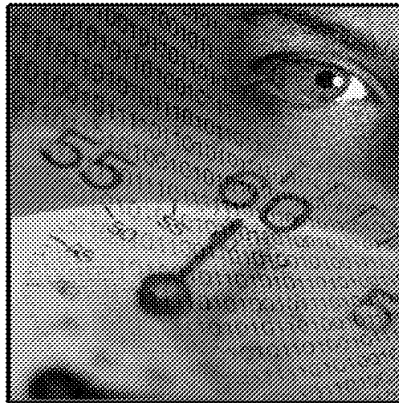
IBM Director V4.1 Server Plus Pack is a new set of tools that extends the capabilities of IBM Director for advanced server management, resulting in optimal performance and maximum availability. These five additional tools are tightly integrated with IBM Director for consistent management from a single console.

Key Prerequisites

For details, refer to the **Technical Information** section.

Planned Availability

December 2002



At a Glance

IBM Director V4.1 provides comprehensive, remote hardware management. Key features include:

- Self-managing, smart tools — Provides automated, proactive capabilities that reduce IT costs and maximize uptime
- Easy installation and setup — Realize quickly the power of IBM Director with new configuration wizards that simplify and streamline installation and setup
- Multiple operating system support — Smoothly handles a variety of operating systems
- Broader Linux support
- Comprehensive server BladeCenter support — Provides an easy, single point of deployment and management of new blade server architectures
- A new command line interface — Enables scripting of base Director management tasks
- The ability to import IBM @server xSeries™ UpdateXpress maintenance fixes and distribute them to IBM Director Agents
- Server Plus Pack — Provides new tools that extend the capabilities of IBM Director for advanced server management

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Description

IBM Director V4.1 is the latest release of the industry-leading client/server workgroup manager. Use as stand-alone or with existing enterprise or workgroup management environments. It lets you leverage the Internet to securely access and manage physically dispersed IT assets more efficiently.

Its tools provide customers with flexible capabilities to realize maximum system availability and lower IT costs. With IBM Director, IT administrators can view and track the hardware configuration of remote systems in detail and monitor the usage and performance of critical components, such as processors, disks, and memory.

In addition to the enhancements in V4.1, there are also enhanced extensions for IBM customers who want advanced capabilities. IBM Director Server Plus Pack consists of five additional tools for advanced server management to help optimize performance and maximize availability. These tools are tightly integrated with IBM Director for consistent management from a single console.

IBM Director Provides

- Self-managing, smart tools — Automated, proactive capabilities that reduce IT costs and maximize uptime.
- Easy installation and setup — Realize quickly the power of V4.1 with new configuration wizards that simplify and streamline installation and set-up.
- Support for non-IBM hardware — Provides innovative use of industry standards from Common Information Model (CIM) to SNMP enable heterogeneous hardware management, protecting your existing IT investment.
- Seamless Integration — Protects your investments in other management packages by integrating with and complementing these with more extensive hardware manageability.
- Single-click management GUI — A convenient user interface delivers ability to drag and drop tasks to specific systems or groups of systems.
- Integrated, centralized SQL database — An internal database makes system-related data available, even when the specific system is not directly available.
- Multiple operating system support — IBM Director smoothly handles a variety of operating systems, including:
 - Windows® 2000
 - Windows XP Professional
 - NetWare
 - Caldera Open Unix
 - VMWare ESX
 - Redhat Linux
 - SuSE Linux
- Basic, industry-standard systems-management functionality for all managed systems and advanced, value-added function when used to manage supported IBM systems:
 - xSeries servers
 - IntelliStation® professional workstations
 - NetVista™ desktops
 - ThinkPad® notebooks

Integration with and complementary functionality for a customer's existing workgroup or enterprise systems management applications, including:

- Tivoli® Enterprise Framework
- Tivoli NetView® NT
- Computer Associates Unicenter TNG
- Microsoft™ SMS
- HP OpenView Network Node Manager
- BMC Patrol
- NetIQ

Lower total cost of managing and supporting networked systems. By deploying IBM Director, reductions in ownership costs can be achieved through:

- Reduced downtime
- Increased productivity of IT personnel and end users
- Reduced service and support costs

IBM Director V4.1 has many new features and support for new operating systems and enhancements to existing functions. Together, these provide significantly richer and broader systems management capabilities for superior hardware management.

Key enhancements include:

- Comprehensive server blade support — Provides an easy, single point of deployment and management of new blade server architectures
- Ease of Use Enhancements — A multitude of new features, including automated set-up and configuration wizards, to make IBM Director even easier to use
- Broader Linux support
- Support for new IBM hardware — Support for the latest xSeries, IntelliStation, NetVista, and ThinkPad hardware to continue the tradition of providing the most manageable systems in the industry

New IBM Director Server Plus Pack

IBM Director can be extended for even greater management and optimization of xSeries servers. The IBM Director Server Plus Pack includes five enhanced, powerful, comprehensive tools for advanced server management to help optimize performance and maximize availability. These tools are tightly integrated with IBM Director for consistent management from a single console.

- Capacity Manager — Tracks resource utilization, identifies multiple levels of existing or potential bottlenecks, and makes recommendations to improve performance. By predicting future server bottlenecks and proactively alerting IBM Director, automated corrective actions can be put in place to minimize downtime.
- Software Rejuvenation — Provides heuristics-based rejuvenation of server platforms enabling potential future outages to be averted automatically. Predicts pending software failures that could lead to costly downtime and can automatically refresh the software for optimal operation.
- System Availability — Tracks and provides a variety of graphical views of system downtime or uptime for an individual system or group of systems, saving labor costs associated with remotely managing and tracking server performance and availability.
- Rack Manager — Configure and manage a rack by dragging and dropping elements on a realistic graphical depiction of the rack and provides health status information of the rack and its components.
- Active PCI Manager — Optimizes server throughput and performance by determining the best placement for PCI cards. You can analyze the current

configuration of cards and PCI bus to determine if they are being used in the most optimal way.

Product Positioning

IBM Director V4.1 is a leading workgroup management application for Intel-based systems. It provides an impressive suite of systems-management tools making IBM the leading provider of highly manageable platforms in the industry.

IBM Director is designed to provide comprehensive hardware manageability resulting in the most manageable systems in the industry and helps reduce costs throughout the life cycle of your PC desktops, IntelliStation workstations, ThinkPad notebooks, and xSeries servers.

It includes self-management features and a portfolio of proactive, predictive tools that enable advanced xSeries server management resulting in higher server availability and reliability.

IBM Director's industry-standard foundation enables heterogeneous hardware support. It works with a variety of operating systems and network protocols. As the sole systems-management application in an environment, it can provide a complete management solution for taking inventory of hardware features and settings, general system information, invoking proactive systems management functions, and a direct link to IBM service and support Web pages. The extensible architecture provided by leveraging industry standards allows for easy integration with other systems management tools and applications.

IBM Director can be extended for even greater management and optimization of xSeries servers. The IBM Director Server Plus Pack includes five enhanced, powerful, comprehensive tools for advanced server managements to help optimize performance and maximize availability. These tools, available separately, are tightly integrated with IBM Director for consistent management from a single console.

IBM Director V4.1 Transition Plan for Customers

Customers that previously purchased IBM Director V3.1 subscription through IBM Passport Advantage are entitled to a free upgrade to IBM Director V4.1 through their Passport Advantage anniversary date.

Additional Information

IBM is revising its availability for the xSeries 440 16-way SMP capability to be fourth quarter 2002.

Trademarks

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IBM US Announcement Supplemental Information

September 24, 2002

Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Our offerings include financing for IT acquisition, including hardware, software, and services, both from IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit the Web at:

<http://www.ibm.com/financing>

IBM Director V4.1 (71P7613)

Technical Information

Supported servers and client systems running supported operating systems.

IBM Director 4.1 Server Operating System (OS) Support:

- Windows® 2000 Server
- Windows 2000 Advanced Server
- Red Hat Linux 7.3
- SuSE Linux 8.0

IBM Director 4.1 Console OS Support:

- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2000 Professional
- Windows XP Professional
- Red Hat Linux 7.3
- SuSE Linux 8.0

IBM Director V4.1 Agent OS Support:

- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2000 Professional
- Windows XP Professional
- Windows 2000 Datacenter
- Red Hat Linux 7.1
- Red Hat Linux 7.2
- Red Hat Linux 7.3
- Red Hat Linux 2.1 Advanced Server
- SuSE Linux Enterprise Server 7.0
- SuSE Linux 7.2
- SuSE Linux 7.3
- SuSE Linux 8.0
- SuSE Linux 8.1
- SCO Group OpenUnix 8.0
- SCO Group OpenUnix 8.0.1
- VMware ESX 1.5
- NetWare 6.0

Additionally, IBM Director V4.1 Server can manage systems running the IBM Director V3.1 agent, enabling customers to stage migrations of classes of systems over time.

Performance Specifications: Director Management Server, Director Management Console, and Director Agent require following recommended configuration:

IBM Director Management Server

- Pentium® II 300 MHz, or faster
- 256 MB system memory
- 150 MB virtual memory
- 300 MB free disk space

IBM Director Management Console

- Pentium II 300 MHz processor, or faster
- 128 MB RAM
- 160 MB free disk space
- TCP/IP network protocol

IBM Director Agent

- Pentium class processor
- 128 MB RAM
- 100 MB free disk space (default configuration, no Server Tools)

Physical Specifications

- Approximate height: 279 mm (11.0 in)
- Approximate width: 216 mm (8.5 in)
- Approximate depth: 25.4 mm (1.0 in)

Operating Environment

- Temperature: 10.0° to 35.0°C (50° to 95°F)
- Relative humidity: 8% to 80%
- Maximum altitude: 2,133 m (7,000 ft.)

Agency Approvals: FCCID — Compliant to FCC Part 15, Class A

ENERGY STAR-Compliant: No

Hardware Requirements — IBM Systems: For the latest list of systems supported, refer to the IBM Director Web site at:

http://www.pc.ibm.com/ww/eserver/xseries/systems_management/nfdir/agent.html

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Hardware Requirements — Non-IBM Systems: IBM Director Agent is supported on systems with SMBIOS 2.1, or later, meeting Intel® Wired for Management (WfM) 2.0 specification.

Software Requirements

IBM Director V4.1 Server OS Support

- Windows 2000 Server
- Windows 2000 Advanced Server
- Red Hat Linux 7.3
- SuSe Linux 8.0

IBM Director V4.1 Console OS Support

- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2000 Professional
- Windows XP Professional
- Red Hat Linux 7.3
- SuSE Linux 8.0

IBM Director V4.1 Agent OS Support

- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2000 Professional
- Windows XP Professional
- Windows 2000 Datacenter
- Red Hat Linux 7.1
- Red Hat Linux 7.2
- Red Hat Linux 7.3
- Red Hat Linux 2.1 Advanced Server
- SuSE Linux Enterprise Server 7.0
- SuSE Linux 7.2
- SuSE Linux 7.3
- SuSE Linux 8.0
- SuSE Linux 8.1
- SCO Group OpenUnix 8.0
- SCO Group OpenUnix 8.0.1
- VMware ESX 1.5
- NetWare 6.0

Additionally, IBM Director V4.1 Server can manage systems running the IBM Director V3.1 agent, enabling customers to stage migrations of classes of systems over time.

Compatibility: Some configurations may not be compatible.

Limitations: Refer to the OS support in the **Technical Information** section.

Planning Information

Additional Cable Orders Required: None

Retail Only

Packaging: Single Package (11 in x 8.5 in x 1.0 in)

Publications

Description	Order Number	Part Number	Distribution Location
IBM Director V4.1 Guide Installation and Configuration	01R0513	01R0513	IBM Web site
IBM Director V4.1 Guide Systems Management	01R0514	01R0514	IBM Web site

Security, Auditability, and Control

IBM Director V4.1 uses the security and audit capability features of the system in which it is installed.

Terms and Conditions

This product is available for purchase under the terms and conditions of the IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all use. Part number products only, where applicable, are license only and do not include Software Maintenance.

IBM Global Financing	Yes
Term Lease —	No
Commercial/State-Federal Government Installment —	Yes
Commercial/State-Federal Government Field-Installable	Yes
Customer Setup	Yes
Model Conversions	No
Product Availability Status	New

Support Period: Program services will be available until November 29, 2004.

IBM warrants that the program will conform at the date of shipment to the current specifications, provided that the program is properly used in the specified operating environment.

If the customer believes there is a defect in a program such that it does not meet its specifications, the customer must notify IBM while Program Services are available for the program.

For program defect-related problems, the following procedure for assistance in problem identification is applicable.

E-mail the problem description to IBM at:

<http://www.pc.ibm.com/qtechinfo/MIGR-4GCRWU.html>

IBM will reply in writing with information about correction, bypass, or restriction with the intent to make the program perform according to its specifications, or, if there are none, to its principles of operation.

Customer information needed when submitting a problem:

- E-mail address and contact name
- Current maintenance/Corrective Service Diskette (CSD) level
- Problem description or, alternately, if you have a Support Line contract, contact Support Line.

For media defect-related problems, contact your IBM reseller, your place of purchase, or your local IBM office.

Note: IBM makes no representations or warranties regarding third-party products or services. Some software may differ from its retail version (if available); and may not include user manuals or all program functionality. Software license agreements may apply.

Money-Back Guarantee

Thirty-day, money-back guarantee, applicable to the first instance per customer enterprise. The money-back guarantee will commence on the invoice date.

National Education Price (NEP)	No
Licensed programs	Yes

Note: IBM programs are licensed under the terms and conditions of the IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

Features and Options Only

Field-installable	Yes
Customer setup	Yes
Optional upgrade	Yes
Licensed programs	Yes

Support Period: Program Services available until November 29, 2004.

Note: IBM programs are licensed under the terms and conditions of the IBM License Agreements.

Direct Customer Support

Direct customer support is provided by IBM Operational Support Services — Support Line. This fee service can enhance your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services — Support Line will help answer questions pertaining to usage, how to, and suspected software defects for eligible products.

Installation and technical support is provided by IBM Global Services. IBM Director V4.1 is supported in the Microsoft™ Windows and Linux support groups. For more information on services, call 800-426-4343 or 426-7378 or visit:

<http://www-1.ibm.com/services/its/us/mus62d1.html>

For more information about what products are supported, visit:

<http://www.ibm.com/services/sl/products>

Or, access IBM's Online Services. IBM support includes a Forum Topic accessible from the IBM Enterprise Support Web page:

<http://www.pc.ibm.com/qtechinfo/MIGR-4GCRWU.html>

This site, monitored by IBM personnel, includes a search facility to quickly locate previous postings on IBM Director-related topics. IBM will respond to your posting within one business day. Web Forum support hours are 9:00 a.m. to 9:00 p.m. Monday through Friday, eastern time.

Web E-mail-Based Support

Technical support is available from the IBM Enterprise Support Web page:

<http://www.pc.ibm.com/qtechinfo/MIGR-4GCRWU.html>

To obtain access to electronic technical support, have the following information ready:

- Your e-mail address
- Your IBM machine type and serial number

IBM will respond to your request via e-mail within one business day. You can also use this method to submit suspected software code defects. Response time will vary. Web e-mail support hours of operation: U.S. and Canada — 9:00 a.m. to 9:00 p.m., eastern standard time.

Accessing IBM Online Services

- IBM Web site at:
<http://www.ibm.com/pc>

Prices

Description	Part Number	IBM List Price ¹
IBM Director V4.1 CD with 20-Client License PoE	71P7613	\$1,180
IBM Director V4.1 Single-Server License PoE	71P7614	599
IBM Director V4.1 Single-Client License PoE	71P7626	59
IBM Director V4.1 20-Additional Client License PoE	71P7615	1,180
IBM Director V4.1 50-Additional Client License PoE	71P7616	2,950
IBM Director V4.1 100-Additional Client License PoE	71P7617	5,900
IBM Director V4.1 Server Plus Pack Single-License PoE	71P7627	399
IBM Director V4.1 Server Plus Pack CD Single-License PoE	71P7618	399
IBM Director V4.1 Server Plus Pack 20-Additional License PoE	71P7619	7,980
IBM Director V4.1 Server Plus Pack 50-Additional License PoE	71P7620	19,950
IBM Director V4.1 Server Plus Pack 100-Additional License PoE	71P7621	39,900

¹ IBM list price; does not include tax or shipping and is subject to change without notice. Reseller prices may vary.

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